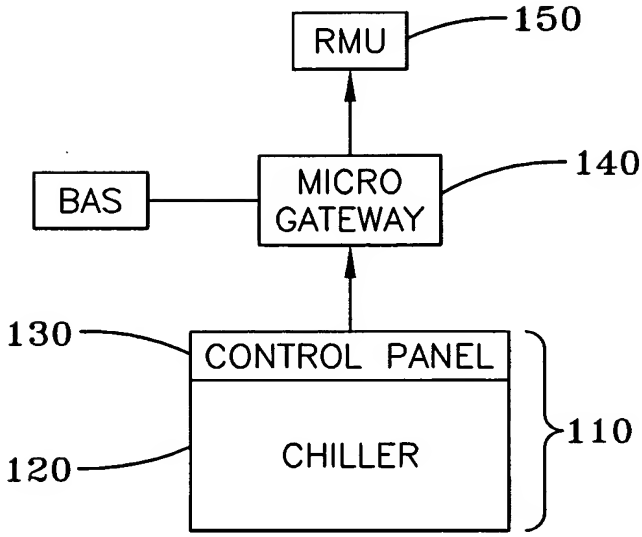
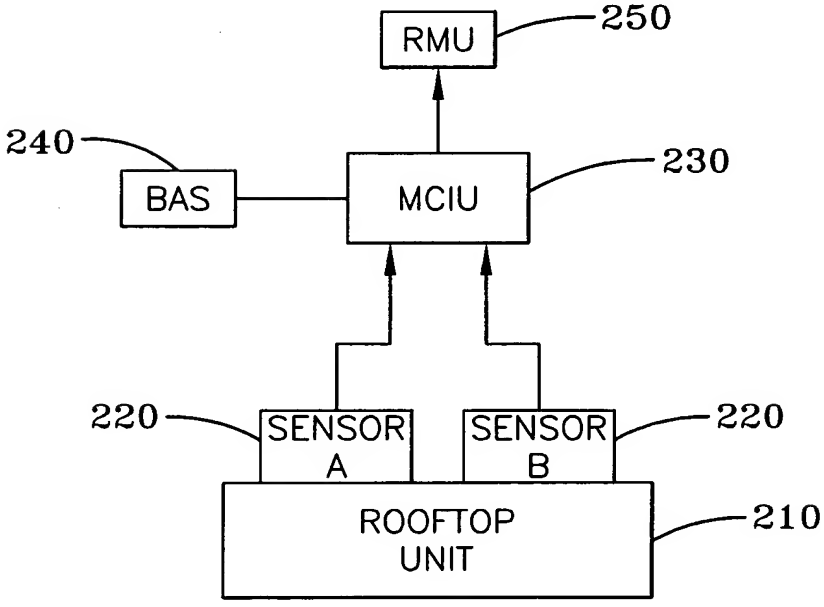
OIPE JC10S
APR 29 2005
PATENT & TRADEMARK OFFICE



FIG–1



FIG–2

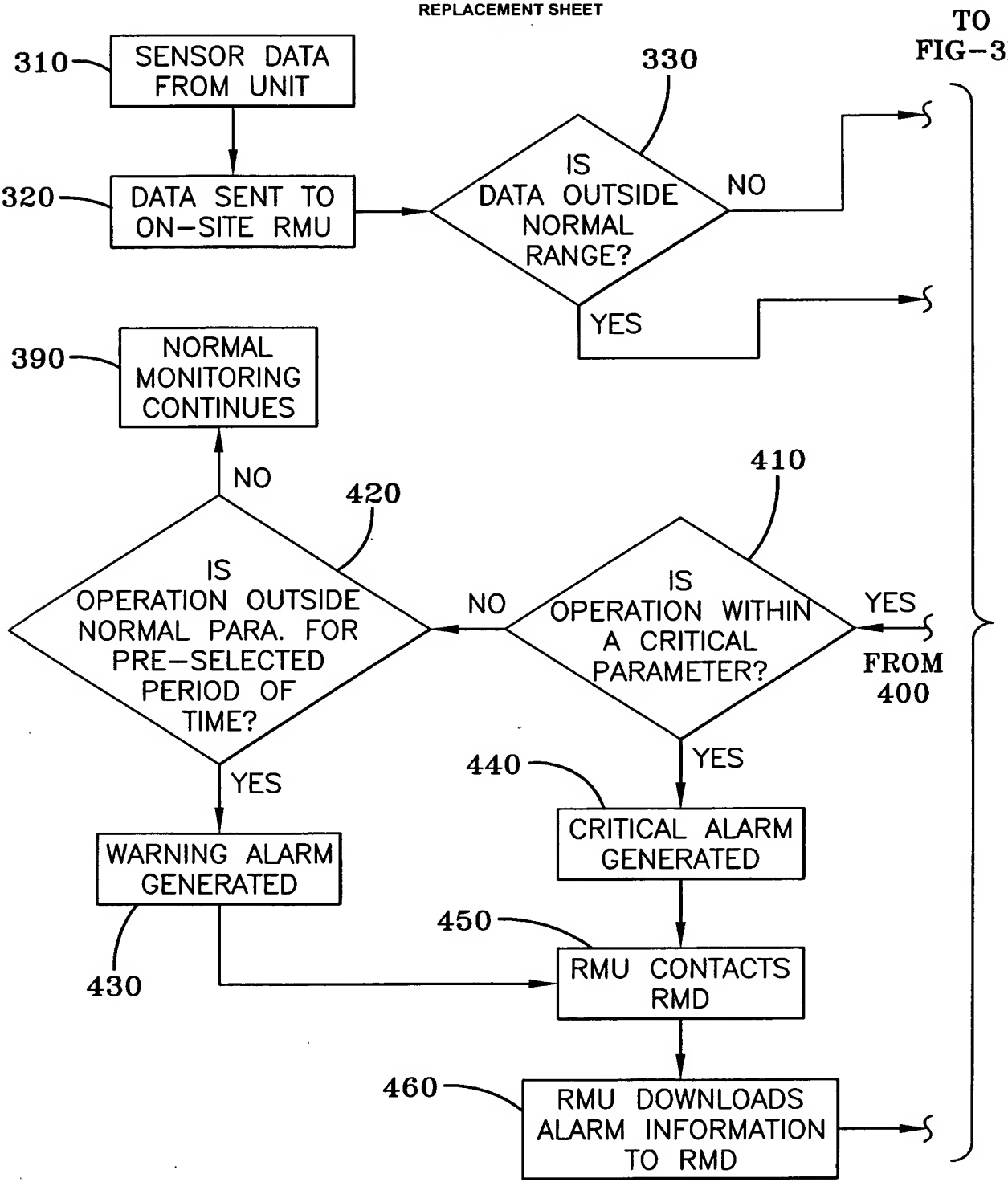

310
SENSOR DATA FROM UNIT
320
DATA SENT TO ON-SITE RMU
330
IS DATA OUTSIDE NORMAL RANGE?
NO
YES
TO FIG-3B
390
NORMAL MONITORING CONTINUES
NO
420
IS OPERATION OUTSIDE NORMAL PARA. FOR PRE-SELECTED PERIOD OF TIME?
NO
410
IS OPERATION WITHIN A CRITICAL PARAMETER?
YES
FROM 400
YES
440
CRITICAL ALARM GENERATED
YES
WARNING ALARM GENERATED
430
450
RMU CONTACTS RMD
460
RMU DOWNLOADS ALARM INFORMATION TO RMD

FIG-3A

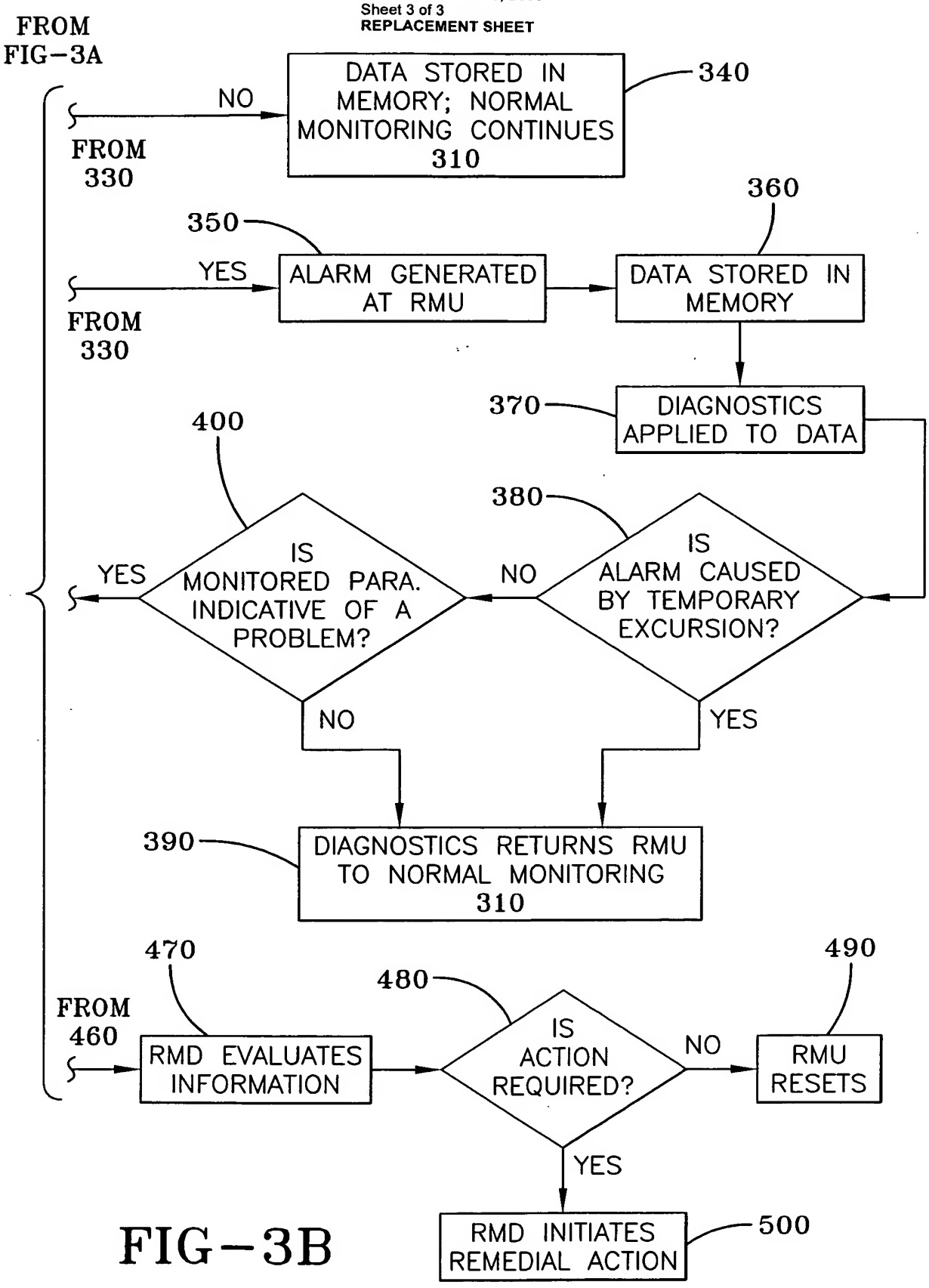

FROM FIG-3A
NO
FROM 330
DATA STORED IN MEMORY; NORMAL MONITORING CONTINUES 310
340
350
360
YES
FROM 330
ALARM GENERATED AT RMU
DATA STORED IN MEMORY
370
DIAGNOSTICS APPLIED TO DATA
400
380
YES
IS MONITORED PARA. INDICATIVE OF A PROBLEM?
NO
IS ALARM CAUSED BY TEMPORARY EXCURSION?
NO
YES
390
DIAGNOSTICS RETURNS RMU TO NORMAL MONITORING 310
470
480
490
FROM 460
RMD EVALUATES INFORMATION
IS ACTION REQUIRED?
NO
RMU RESETS
YES
RMD INITIATES REMEDIAL ACTION
500

FIG-3B